

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.						
PU040049 International application No.	International filing date (day/month	/year) (Earliest) Priority Date (day/month/year)						
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PCT/US2004/004702	19/02/2004							
Applicant								
THOMSON LICENSING S.A.								
This International Search Report has been according to Article 18. A copy is being tra		ching Authority and is transmitted to the applicant						
This International Search Report consists	of a total of 4 she	ets.						
X It is also accompanied by	a copy of each prior art document ci	ted In this report.						
	international search was carried out ess otherwise indicated under this ite	on the basis of the international application in the m.						
The international this Authority (Ru		of a translation of the international application furnished to						
b. With regard to any nucleo	otide and/or amino acid sequence	disclosed in the international application, see Box No. I.						
2. Certain claims were fou	nd unsearchable (See Box II).							
3. Unity of invention is lack	king (see Box III).							
4. With regard to the title,								
the text is approved as su	bmitted by the applicant.							
the text has been established by this Authority to read as follows:								
METHOD AND APPARATUS F	OR CARRIER RECOVERY I	A COMMUNICATIONS SYSTEM						
		•						
		•						
5. With regard to the abstract,								
X the text is approved as su	bmitted by the applicant.							
		s Authority as it appears in Box No. IV. The applicant onal search report, submit comments to this Authority.						
6. With regards to the drawings ,								
a. the figure of the drawings ,	ublished with the abstract is Figure N	lo. 17 - 8						
as suggested by t								
	s Authority, because the applicant fai	led to suggest a figure.						
	s Authority, because this figure better	,						
	e published with the abstract.							
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INTERNATIONAL SEARCH REPORT

national Application No PCT/US2004/004702

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H04L27/00 H04L H04L27/34 H04B7/185 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 H04L H04B Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ, INSPEC, COMPENDEX, IBM-TDB C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to daim No. Y WO 02/089371 A (HUGHES ELECTRONICS CORP) 1 - 357 November 2002 (2002-11-07) page 5, paragraph 3 page 8, paragraph 2 - paragraph 4; figure .4B Y WO 03/101034 A (MATSUMOTO WATARU : 1-35 MITSUBISHI ELECTRIC CORP (JP)) 4 December 2003 (2003-12-04) abstract; figure 1 1 - 35Y US 2003/123595 A1 (GOLSHAN ALI R ET AL) 3 July 2003 (2003-07-03) paragraph '0044!; figure 3 Υ EP 1 313 279 A (CIT ALCATEL) 1 - 3521 May 2003 (2003-05-21) paragraph '0020! - paragraph '0033! Further documents are listed in the continuation of box C. Patent family members are listed in annex. X Special categories of cited documents: *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to "L" document which may throw doubts on priority claim(s) or Involve an inventive step when the document is taken alone which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-"O" document referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but "&" document member of the same patent family later than the priority date claimed Date of the actual completion of the international search Date of mailing of the International search report 18 October 2004 22/10/2004 Authorized officer Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Koukourlis, S

4

INTERNATIONAL SEARCH REPORT

rational Application No PCT/US2004/004702

	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	
ategory °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
′	US 2002/067779 A1 (JONES CHRISTOPHER R ET AL) 6 June 2002 (2002-06-06) paragraph '0020!; figure 3	1-35
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INTERNATIONAL SEARCH REPORT

rational Application No PCT/US2004/004702

Patent document cited in search report		Publication date	•	Patent family member(s)		Publication date
WO 02089371	A	07-11-2002	US	2002181604	A1	05-12-2002
			CA	2442400	A1	07-11-2002
			EP	1382141	A1	21-01-2004
			NO	20026115	Α	19-12-2002
			WO	02089371		07-11-2002
			WO	2004040806		13-05-2004
			WO	2004040403		13-05-2004
			WO	2004040924		12-05-2004
	-	- ·	WO	2004040897		13-05-2004
			WO	2004040406		13-05-2004
			WO	2004040820		13-05-2004
			US	2002158619		31-10-2002
			US	2003219069		27-11-2003
			US	2004184521		23-09-2004
			US	2004141474		22-07-2004
			US 	2004141575 		22-07-2004
WO 03101034	Α	04-12-2003	JP	2003348064	Α	05-12-2003
			WO	03101034	A1	04-12-2003
US 2003123595	A1	03-07-2003	NONE			
EP 1313279	A	21-05-2003	EP	1313279	A1	21-05-2003
US 2002067779	A1	 06-06-2002	AU	4515801	Α	18-06-2001
	_		EP	1234420		28-08-2002
			WO	0143384		14-06-2001